M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. 1st and final Bill

225936

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency..... Technical Manager (West) KRIDL Bangalore

Date of commencement of work..... D.O. Records 21/01/2019

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work : Improv. to Roads of Arehalah Kannegondanahally colony and Jarakabande kaval slum balance Roads in Ward No. 12, Shettyhalli Sub-Division						
	Estimated cost : Rs 50.00 Lakhs						
	Job No - 012-18-000057-Pcode-1878 (2017-18 ~~2nd~~ 24.1). Works						
	Work orders No = EE/DD/WO/ 117-18 - Dt.						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
①	Earthwork Excavation by manual means in ordinary soil, including an average lift upto 2mt and an average lift upto 1.5mt, Excavated surface levelled at site, nearby dressed, the disposed earth to be leveled nearby after breaking clods complete as per specification & at direction of Engineer-in-charge of work.						
	9th Kota M.B. No. 592/17-18						91604.78
	Pg no ① P no 591837					520.60	
						@ 175.94/m³	
②	Providing and laying in position plain cement concrete of						

M. A. R. 57 (Rule 116) No. D
Measurement Book

225937

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mix 1:4:8 Dalmore cement @ 180 kg/m³ with 40mm and down size graded granite metal Coarse aggregate 0.8m³ & fine aggregate @ 0.57m³, machine mixed Concrete laid in layers not exceeding 15 cms thick well compacted, in foundations, including costing all materials, labour, hoisting machinery curing complete as per specification and direction of Engineer in-charge of work.						
	9th Kota M.B. No. 592/17-18						
	Pg no ② P no 591835						1786052.72
	= 346.20m³ @ 5159.02/m³						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(3)	Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320 kgs with 20 mm and down size graded granite metal, Coarse aggregate 0.69 m^3 and fine aggregate 0.46 m^3 with super plasticizer @ 3 ltr confirming to 9103-1999 not exceeding 2.00 %, machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundations for footings, pedestals, retaining walls, abutments, return walls, piers walls including attached pilasters, columns, pier etc complete as per specifications of drawing approved by engineer-in-charge of work.						

M. A. R. 57 (Rule 116) No. D
Measurement Book

225938

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(a) for drain Balcony at K.C. Hilly colony	qty wide pg B-592/17-18 M (5)					
		P. no - 5918/6				= 12.60 m^3	
	(b) for drain side wall	2 nos	23.20	0.15	0.60	4.18 m^2	
		2 nos	28.10	0.15	0.60	5.06	
		2 nos	25.00	0.15	0.60	4.50	
						26.32 m^3	
					Lead	25.88 m^3	164898 - 55
(4)	Providing and removing	centering, shuttering, strutting, propping				@ 637.66 /m^3	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	etc and removal of forms, centre for vertical surface such as walls at any thickness, including attached pilasters, buttresses, including plinth, cills and string, courses, centring, all materials, labour, complete as per specifications and directions of Engineer-in-charge of the work.						
	Extra rate MB. No. 592/17-18						
	11 no (4) p.no. 59/186						41928.30
	= 135.45 m² @ 310.55/m²						
(5)	Providing TMT. steel reinforcement for RCC work including straighting, cutting, bending, hooking, placing in position						

M. A. R. 57 (Rule 116) No. D

Measurement Book

225939

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design, cost of material, labour, hire of machinery complete as per specifications and direction of Engineer-in-charge of work.						
	Extra rate MB. No. 592/17-18 11 no (3)						
	p.no 59/186					1.68 MT @ 64245.42/Tm	107928 = 95
6)	Constructing un-reinforced	plain cement concrete pavement					

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	thickness as per design, over a prepared sub-base with opc cement or any other type as per clause - 1051.22 design mix. M.20/m.20, with 20mm ad down size graded granite metal Coarse aggregate and fine aggregate with superplasticizer @ 3 ltr confirmity to IS-9103-1999 Re-affirmed-2008, mixed in a Concrete mixer of not less than - 0.60 m³ capacity and appropriate weight batches as per approved mix design, laid to approved grade shape form work including levelling, dry form work as per density, spreading the concrete with shovels, rakers, compacted using needle, screed and plate						

M. A. R. 57 (Rule 116) No. D
Measurement Book

225940

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Vibrator and finished in a continuous operation including Provision of contraction, expansion, construction and longitudinal joints, including ignore cutting charges etc complete.						
	Cv Kelo Road to Mwingi Rd	1	15.00	$\frac{5.10+3.50}{2}$	0.15	10.01 m³	
		1	15.00	$\frac{3.50+3.90}{2}$	0.15	8.66	
		1	15.00	$\frac{3.90+2.80}{2}$	0.15	7.54	
		1	15.00	$\frac{2.80+3.50}{2}$	0.15	6.98	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	15.00	$\frac{3.54+2.00}{2}$	0.15	= 6.08	
		1	7.00	$\frac{2.54+2.0}{2}$	0.15	= 2.10	
	Cross-Road-4/3-1	1	7.00	1.30	0.15	= 1.37	
	—"— 4/3-2	1	15.00	$\frac{1.3+1.6}{2}$	0.15	3.26	
		1	11.00	$\frac{1.6+1.1}{2}$	0.15	2.23	
	Cross-Road 4/3-3	1	15.00	1.50	0.15	3.38	
		1	15.00	$\frac{1.5+2.0}{2}$	0.15	3.94	
	Cross-Road R/3-1	1	15.00	$\frac{2.5+1.5}{2}$	0.15	4.73	
	—"— -2	1	17.40	$\frac{2.6+1.9}{2}$	0.15	4.44	
	Cross-Road	1	8.30	$\frac{1.3+1.4}{2}$	0.15	1.68	

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Measurement Book

225941

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(5) -11th main Road	1	13.00	$\frac{2.3+2.9}{2}$	0.15	5.07	
		1	15.00	$\frac{2.5+2.9}{2}$	0.15	5.40	
		1	15.00	$\frac{1.5+2.1}{2}$	0.15	5.63	
		1	15.00	$\frac{2.1+3.1}{2}$	0.15	6.98	
		1	11.00	$\frac{3.1+3.6}{2}$	0.15	6.35	
	Cross-Road-4/3-1	1	9.00	$\frac{1.2+1.9}{2}$	0.15	1.82	
	—"— R/3-1	1	4.00	$\frac{1.8+1.2}{2}$	0.15	0.90	
	—"— -2	1	15.00	$\frac{2.0+1.0}{2}$	0.15	3.38	
	Cross-Road	1	12.00	$\frac{1.9+1.0}{2}$	0.15	2.25	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CROSS-Rd-1	1	5.00	$\frac{1.0+0.9}{2}$	0.15	0.71 m^2	
	R/S CRoss-Road-3	1	5.00	$\frac{0.8+0.9}{2}$	0.15	0.60	
	R/S CRoss-Road-4	1	15.00	$\frac{2.9+1.8}{2}$	0.15	5.29	
		1	17.00	$\frac{1.8+1.9}{2}$	0.15	4.72	
(C)	12M main Road	1	15.00	$\frac{3.0+2.7}{2}$	0.15	6.41	
		1	11.00	$\frac{2.7+2.4}{2}$	0.15	5.20	
	CRoss-Rd-1 R/S	1	9.50	$\frac{2.4+2.0}{2}$	0.15	3.14	
		1	2.20	$\frac{2.2+2.3}{2}$	0.15	0.74	
		1	8.00	$\frac{2.0+1.7}{2}$	0.15	2.22	
	CRoss-Road-R/S-1	1	5.00	$\frac{1.0}{2}$	0.15	0.75	
		1	13.00	$\frac{1.2+1.5}{2}$	0.15	2.13	

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Measurement Book

225942

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CROSS-Road - R/S-2	1	15.00	$\frac{1.7+2.5}{2}$	0.15	4.73 m^2	
		1	15.00	$\frac{2.5+1.0}{2}$	0.15	3.94	
	CROSS-Rd-1	1	9.00	$\frac{1.5+1.4}{2}$	0.15	1.96	
	CRoss-Rd-3 R/S	1	15.00	$\frac{0.9+2.4}{2}$	0.15	3.71	
		1	9.00	$\frac{2.4+3.5}{2}$	0.15	3.98	
	D) Temple surrounding area	1	30.00	2.80	0.15	12.60	
		1	31.30	2.80	0.15	13.15	
		1	30.00	0.75	0.15	3.37	
		1	26.50	0.75	0.15	2.98	
		1	7.00	1.70	0.15 =	1.79	

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1	7.50	2.10	0.15	2.36	
		1	8.80	1.80	0.15	2.38	
		2x1	30.00	5.10	0.15	45.90	
	B) Cross-Road	1	19.20	5.10	0.15	14.68	
		1x3	30.00	4.10	0.15	55.35	
		1	30.00	3.85	0.15	17.33	
		1	28.70	3.55	0.15	15.07	
		1	22.00	4.00	0.15	13.20	
		1	9.00	7.00	0.15	9.45	
					Total	388.27	
					Use to	388.00	
					@	5508.82	2137422.16

Checked
21/1/2019

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Measurement Book
225943

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total - B		45,02,707.47
				Add KRIDL	Charge 10%		4,95,297.82
					G. Total A		49,98,005.29
				31/01/2019			

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Kala Road Along D.B. Karan Marg	12 m Cross Road	24.0 m 30.0 m 9.0 m 15.20 m 13.0 m	11 m Cross Road 15.0 m 15.0 m 4.0 m	15.0 m 30.0 m 15.0 m 7.2 m	10 m Cross Road 17.40 15.0 m	N
	Kala Marg Road						

M. A. R. 57 (Rule 116) No. D

Measurement Book

225944

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	K. C. Marg Main Road		Road		25 m.m	K.G. Marg colony	→ N

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